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FIGURE 1. Methionyl tRNA synthetase cloned DNA sequence [SEQ ID NO:1]

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1  ATGGCTAAAG AAACATTTTA TATAACAACC CCAATATACT ATCCTAGTGG

51  GAATTTACAT ATAGGACATG CATATTCTAC AGTGGCTGGA GATGTTATTG

101 CAAGATATAA GAGAATGCAA GGATATGATG TTTCGTTATTT GACTGGAACG

151 GATGAACACG GTCAAAAAAT TCAAGAAAAA GCTCAAAAAG CTGGTAAGAC

201 AGAAATTGAA TATTGGATG AGATGATTGC TGGAATTAAA CAATTGTGGG

251 CTAAGCTTGA AATTTCAAAT GATGATTTTA TCAGAACAAC TGAAGAACGT

301 CATAAACATG TCGTTGAGCA AGTGTTTGAA CGTTTATTAA AGCAAGGTGA

351 TATCTATTTA GGTGAATATG AAGTTGGTA TTCTGTTCCG GATGAAACAT
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FIG. 1A

401 ACTATACAGA GTCACAATTA GTAGACCCAC AATACGAAA CCGTAAAAATT
451 ATTGGTGGCA AAAGTCCAGA TTCTGGACAC GAAGTTGAAC TAGTTAAAGA
501 AGAAAGTTAT TTCTTTAATA TTAGTAAATA TACAGACCGT TTATTAGAGT
551 TCTATGACCA AAATCCAGAT TTTATACAAC CACCATCAAG AAAAAATGAA
601 ATGATTAAACA ACTTCATTAA ACCAGGACTT GCTGATTAG CTGTTTCTCG
651 TACATCATTT AACTGGGGTG TCCATGTTCC GTCTAATCCA AAACATGTTG
701 TTTATGTTTG GATTGATGCG TTAGTTAACT ATATTTCAGC ATTAGGCTAT
751 TTATCAGATG ATGAGTCACT ATTTAACAAA TACTGGCCAG CAGATATTCA
801 TTTAATGGCT AAGGAAATTG TCGGATTCCA CTCAATTATT TGGCCTATT

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FIG. 1B

851 TATTGATGGC ATTAGACTTA CCGTTACCTA AAAAAGTCTT TGCACATGGT
901 TGGATTTTGA TGAAGAATGG AAAAATGAGT AAATCTAAAG GTAATGTTGT
951 AGACCCCTAAT ATTTTAATTG ATCGCTATGG TTTAGATGCT ACACGTTATT
1001 ATCTAATGCG TGAATTACCA TTTGGTTCAG ATGGCGTATT TACACCTGAA
1051 GCATTGTGTG AGCGTACAAA TTTCGATCTA GCAAATGACT TAGGTAACCTT
1101 AGTAAACCGT ACGATTCTA TGGTTAATAA GTACTTTGAT GGCGAATTAC
1151 CAGCGTATCA AGTCCACTT CATGAATTAG ATGAAGAAAT GGAAGCTATG
1201 GCTTTAGAAA CAGTGAAAAG CTACACTGAA AGCATGGAAA GTTTCGAATT

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FIG 1C

1251 TTCTGTGGCA TTATCTACGG TATGGAAGTT TATAAGTAGA ACGAATAAGT
1301 ATATTGACGA AACAAAGCCT TGGGTATTAG CTAAGGACGA TAGCCAAAAA
1351 GATATGTTAG GCAATGTAAT GGCTCACCTA GTTGAAAAATA TTCGTTATGC
1401 AGCTGTATTA TTACGTCCAT TCTTAACACA TCGCGCCGAA GAGATTTTIG
1451 AACAAATGAA CATAAACAAAT CCTCAATTTA TGGAATTAG TAGTTTAGAG
1501 CAATATGGTG TGCTTACTGA GTCAATTATG GTTACTGGGC AACCTAAACC
1551 TATTTTCCCA AGATTGGATA GCGAAGCGGA AATTGCATAT ATCAAAGAAT
1601 CAATGCAACC GCCTGCTACT GAAGAGGAAA AAGAAGAGAT TCCTAGCAAA
1651 CCTCAAATG ATATTAAAGA CTTTGATAAA GTTGAAATTA AGGCAGCAAC

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FIG 1D

1701 GATTATTGAT GCTGAACATG TTAAGAAGTC AGATAAGCTT TTAAAAATTC
1751 AAGTAGACTT AGATTCTGAA CAAAGACAAA TTGTATCAGG AATGCCCCAA
1801 TTCTATACAC CAGATGATAT TATTGGTAAA AAAGTAGCAG TTGTTACTAA
1851 CCTGAAACCA GCTAAATTAA TGGGACAAAA ATCTGAAGGT ATGATATTAT
1901 CTGCTGAAAA AGATGGTGTA TTAACCTTAG TAAGTTTACC AAGTGCAATT
1951 CCAAATGGTG CAGTGATTAA ATAA

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FIGURE 2. Methionyl tRNA synthetase deduced amino acid sequence [SEQ ID NO:2]

1 MAKETFYITT PIYPSGNLH IGHAYSTVAG DVIARYKRMQ GYDVRYLGTG

51 DEHGQKIQEK AQKAGKTEIE YLDEMIAGIK QLWAKLEISN DDFIRTEER

101 HKHVVEQVFE RLLKQGDYIL GEYEGWYSVP DETYYTESQL VDPQYENGKI

151 IGGKSPDSGH EVELVKEESY FFNISKYTDR LLEFYDQNPD FIQPPSRKNE

201 MINNFIKPGL ADLAVSRTSF NWGVHVPSNP KHVYVWIDA LVNYISALGY

251 LSDDESLEFNK YWPADIHLMA KEIVRFHSII WPILLMALDL PLPKKVFAHG

301 WILMKDGKMS KSKGNVVDPN ILIDRYGLDA TRYILMRELP FGSDGVFTPE

351 AFVERTNFDL ANDLGNLVNR TISMVNKYFD GELPAYQGPL HELDEEMEAM

401 ALETVKSYTE SMESLQFSVA LSTVWKFISR TNKYIDETTP WVLAKDDSQK

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FIG 2A

451 DMLGNVMAHL VENIRYAAVL LRPFLTHAPK EIFEQLNINN PQFMEFSSLE
501 QYGVLTESIM VTGQPKPIFP RLDSEAEIAY IKESMQPPAT EEEKEEIPSK
551 PQIDIKDFDK VEIKAATIID AEHVKKSDKL LKIQVDLDSE QRQIVSGIAK
601 FYTPDDIIGK KVAVVTNLKP AKLMGQKSEG MILSAEKDGV LTLVSLPSAI
651 PNGAVIK